Contents

Bottom-up strategy to obtain luminescent and redox-active metal complexes of	
nanometric dimensions	
V. Balzani (Bologna, Italy), S. Campagna (Messina, Italy), G. Denti (Pisa, Italy), A. Juris (Bologna, Italy), S. Serroni (Pisa, Italy) and M. Venturi (Bologna, Italy)	1
The design and preparation of transition metal triad systems for excited-state charge	
separation	
J.D. Petersen, S.L. Gahan, S.C. Rasmussen and S.E. Ronco (Clemson, SC, USA)	15
Electronic spectra and photochemistry of trichlorostannyl complexes of rhodium(III) and platinum(II)	
V. Pawlowski, H. Kunkely and A. Vogler (Regensburg, Germany)	23
Application of time-resolved-pulsed-EPR spectroscopy to study photoinduced	
electron transfer reactions. Porphyrin/quinone system	
M. Iwaizumi, K. Yamamoto, Y. Ohba and S. Yamauchi (Sendai, Japan)	29
Vibrational satellite structures and properties of electronic states of transition metal complexes	
H. Yersin, P. Huber and H. Wiedenhofer (Regensburg, Germany)	35
Spectroscopic and magnetic studies of complexes of d ¹⁰ closed shell ions S. Kimachi, S. Ikeda, H. Miki, T. Azumi (Sendai, Japan) and G. A. Crosby (Washington, DC, USA)	. 43
Spin chemistry of Ru(II)-trisdiimine complex photooxidation in magnetic fields up to 17.5 Tesla	
D. Bürßner and U.E. Steiner (Konstanz, Germany)	. 5
Interplanar interactions in the triplet dimers of Zn and metal free complexes of crowned porphyrin and phthalocyanine studied by time-resolved electron	
paramagnetic resonance	
R. Miyamoto, S. Yamauchi, N. Kobayashi, T. Osa, Y. Ohba and M. Iwaizumi (Sendai, Japan)	. 5
Electronic spectra of RMn(CO) ₃ (α-diimine) (R = H, CH ₃): a CASSCF/CCI	
comparative study of the lowest singlet excited states	
C. Daniel, T. Matsubara and G. Stor (Strasbourg, France)	. 6.
Tailor made coordination compounds for photochemical purposes	
A. von Zelewsky, P. Belser, P. Hayoz, R. Dux, X. Hua, A. Suckling (Fribourg,	
Switzerland) and H. Stoeckli-Evans (Neuchâtel, Switzerland)	. 7
Luminescent donor-acceptor platinum(II) complexes	
C.W Chan I.K Cheng and C.M Che (Hong Kong Hong Kong)	8

Photoexcited states of dinuclear Ru complexes bridged by proton-dissociable benzimidazole derivatives M. Haga, Md. Meser Ali, H. Maegawa (Mie, Japan), K. Nozaki, A. Yoshimura and T. Ohno (Toyonaka, Japan)
Coordinatively unsaturated excited states and DNA-binding interactions D.R. McMillin, F. Liu, K.A. Meadows, T.K. Aldridge and B.P. Hudson (West Lafayette, IN, USA)
Mechanisms of the photosubstitution of ruthenium(II) polypyridine complexes: formation of an intermediate with a monodentate polypyridine ligand and its reactions
S. Tachiyashiki (Saitama, Japan) and K. Mizumachi (Tokyo, Japan)
Cr(III) photosubstitution without stereochemical change? Photoaquation of trans- dicyanotetram(m)ine complexes
A.D. Kirk and S.R.L. Fernando (Victoria, B.C., Canada)
Photochemical and photophysical studies of tetranuclear copper(I) halide clusters: an overview
P.C. Ford (Santa Barbara, CA, USA)
Infrared photodecomposition of Fe(CO) ₅ using a TEA CO ₂ laser T. Majima (Saitama, Japan)
The photochemical formation of organometallic radicals from α-diimine complexes
having a metal-metal, metal-alkyl or metal-halide bond D.J. Stufkens, J.W.M. van Outersterp, A. Oskam, B.D. Rossenaar and G.J. Stor
(Amsterdam, Netherlands)
Photochemical mechanisms in intermolecular C-H bond activation reactions of organometallic complexes
A.J. Lees (Preston, UK) and A.A. Purwoko (Binghamton, NY, USA)
Cr(CO) ₅ (phen) as an intermediate of photochemical CO substitution in Cr(CO) ₆ with 1,10-phenanthroline
S. Oishi (Kanagawa, Japan)
Bond activation by MLCT excitation of organometallic compounds: prompt co-
photodissociation from [Cr(CO) ₄ byp] A. Vlček, Jr., J. Víchová and F. Hartl (Prague, Czech Republic)
Photochemical reactions of several adducts of metalladithiolenes and
metalladithiazoles - dissociation and rearrangement
M. Kajitani, T. Fujita, N. Hisamatsu, H. Hatano, T. Akiyama and A. Sugimori (Tokyo, Japan)
Luminescence from supramolecules triggered by the molecular recognition of substrates
Z. Pikramenou, J. Yu, R.B. Lessard, A. Ponce, P.A. Wong and D.G. Nocera (East Lansing, MI, USA)

Toward photochemical carbon dioxide activation by transition metal complexes E. Fujita, B.S. Brunschwig, T. Ogata (Upton, NY, USA) and S. Yanagida (Osaka,
Japan)
Competitive energy and electron-transfer quenching in intramolecular processes of
excited polypyridine ruthenium(II)/osmium(II) binuclear complexes M. Furue, K. Maruyama, Y. Kanematsu, T. Kushida and M. Kamachi (Osaka, Japan)
Intramolecular energy transfer through phenyl bridges in rod-like dinuclear
Ru(II)/Os(II) terpyridine-type complexes
F. Barigelletti, L. Flamigni, V. Balzani (Bologna, Italy), JP. Collin, JP. Sauvage, A. Sour (Strasbourg, France), E.C. Constable and A.M.W. Cargill Thompson (Cambridge, UK)
Intramolecular electron transfer within mixed-valence diruthenium complexes K. Nozaki and T. Ohno (Osaka, Japan)
Photoinduced electron-transfer reactions of zinc and magnesium myoglobins
K. Tsukahara, M. Okada, S. Asami, Y. Nishikawa, N. Sawai (Nara, Japan) and
T. Sakurai (Kanazawa, Japan)
Electronic coupling in oblique bisporphyrins
A. Harriman, V. Heitz (Austin, TX, USA), JC. Chambron and JP. Sauvage (Strasbourg, France)
Photochemical reactions of dioxygen containing metalloporphyrins
M. Hoshino, K. Yamamoto, J.P. Lillis, T. Chijimatsu and J. Uzawa (Saitama, Japan)
A time-resolved ESR study on triplet-triplet energy transfer processes in a copper(II)-
free-base porphyrin dimer
M. Asano-Someda, T. Ichino and Y. Kaizu (Tokyo, Japan)
Electron transfer reactions of geminate pairs at high exergonicities
J.M. Zaleski, C. Turró, R.D. Mussell and D.G. Nocera (East Lansing, MI, USA)
Ligand to metal charge transfer transitions in Ru(III) and Os(III) complexes of substituted 2,2'-bipyridines
K. Kalyanasundaram, S.M. Zakeeruddin and M.K. Nazeeruddin (Lausanne, Switzerland)